

E2 The switch 50 selects one of the data corresponding to the accompaniment sound and vocal sound, or to only the accompaniment sound received from the first and the second audio presentation parts 75 and 76 of the audio signal processing part 70 and transmits the selected data under the control of the control part 30.

IN THE CLAIMS:

Please amend claims 23, 27, 28, 31, 35, 36, 38, 42 and 44 as follows:

Sub E3 23. (Amended) A device for reproducing a digital signal recorded on a medium, the digital signal including a video signal, a plurality of audio signals encoded into audio channels wherein each audio signal is composed of data units and each data unit including information for identifying the audio signal represented by the data unit, a block of the data units being sequentially interleaved between data units of video signal, each audio signal being represented by one of the data units in the block, comprising:

a demodulator for demodulating the digital signal to restore an original signal;

a signal processor for receiving the plurality of audio signals, extracting the indicating information, separating the data units corresponding to at least

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E3 one of the plurality of audio signals based on the extracted indicating information; and

a controller, coupled to the signal processor, controlling the signal processor to separate the data units corresponding to one of the audio signals designated by user input.

E4 24. (Amended) A device as claimed in claim 23, wherein the plurality of audio signals includes a first type audio signal and a second type audio signal each having different contents, and the controller separates the data units corresponding to one of the audio signals of the first and second type based on user input designating one of the audio signals of the first and second type.

E5 26. (Amended) A device as claimed in claim 23, wherein said signal processor further comprises:

a synchronizer for synchronizing the audio presentation time of at least one of the separated plurality of audio signals under control of said controller.

sub H3 27. (Amended) A device as claimed in claim 23, wherein the plurality of audio signals are encoded by MPEG coding mode, wherein the signal processor further comprises:

E6 an MPEG audio decoder for decoding said plurality of audio signals.

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28. (Amended) A method for reproducing a digital signal recorded on a medium, said digital signal including a video signal, a plurality of audio signals encoded into audio channels wherein each audio signal is composed of at least data units of audio information, and each data unit including indicating information for identifying the audio signal represented by the data unit, a block of the data units being sequentially interleaved between data units of video signal, each audio signal being represented by one of the data units in the block, comprising the steps of:

demodulating the digital signal to restore an original signal;

receiving the video signal and the plurality of audio signals;

extracting the indicating information;

separating the data units corresponding to at least one of the plurality of audio signals based on the extracted indicating information; and

controlling the separating step to separate data units corresponding to one of the plurality of audio signals in response to user input designating one of the plurality of audio signals.

29. (Amended) The method of claim 28, wherein the step of separating includes separating one of the audio signals representing accompaniment sound.

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31. (Amended) A device for processing a digital signal, comprising:
an audio signal processor receiving indicating information and first units of digital audio data interleaved at a predetermined interval with second units of digital video data, the digital audio data including more than one audio channel, and the indicating information indicating a presence of the audio channels in the digital audio data, the audio signal processor extracting the indicating information, and separating one of the audio channels using the indicating information; and

a control circuit controlling the audio signal processor to separate one of the audio channels based on user input designating one of the audio channels.

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35. (Amended) The device of claim 31, further comprising:
a timing signal generator generating a timing signal; and wherein
the audio signal processor compares the timing signal to timing information in the digital audio data, and outputs the separated one of the audio channels based the comparison.

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36. (Amended) The device of claim 31, wherein the audio signal processor
MPEG decodes the audio channels.

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38. (Amended) A method for processing a digital signal, comprising:
receiving indicating information and first units of digital audio data
interleaved at a predetermined interval with second units of digital video data,
the digital audio data including more than one audio channel, and the
indicating information indicating a presence of the audio channels in the digital
audio data;

extracting the indicating information;

separating one of the audio channels using the indicating information
and user input designating one of the audio channels.

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42. (Amended) The method of claim 38, further comprising:
generating a timing signal;
comparing the timing signal to timing information in the digital audio
data; and
outputting the separated one of the audio channels based on the
comparison.

43. (Amended) The device of claim 38, wherein the separating step
includes MPEG decoding the audio channels.

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44. (Amended) The device of claim 23, wherein the signal processor
includes a switch that selectively outputs the data units under control of the

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